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27 July 1964

MEMORANDUM FOR THE RECORD

SUBJECT: Check-out and Acceptance of Prototype Stereo  
Chip Comparator

1. Subject comparator was formally checked-out at the contractor's plant [redacted] on 8 July 1964. (Reference memorandum for record dated 15 July 1964 [redacted]) 25X1
2. Shipment [redacted] was accomplished, the instrument arriving on 17 July 1964. It was unloaded, uncrated and set-up in room 3N116C, PID, to saturate over the week-end. Assembly was completed on 20 July and check-out began that day. The only apparent damage due to shipping was mis-alignment of the interferometer for the "x" drive and misalignment of the "x" stage surface plate. Both were corrected, furnishing the proper output signal from the interferometer and proper focus on the "x" stage. The instrument was aligned and focused using [redacted] objectives and eyepieces, and held focus throughout with all three objectives in both x and y. 25X1
3. The check-out after installation consisted of electronically checking input and output signals, full x - y measurement of the various magnifications, focus check of each magnification, and generally the same check performed at the contractor's plant.
4. Some deficiencies noted are:
  - a. #1 digit in one nixie tube out. Will need replacement.
  - b. Contractor representative stated that the "y" axis counter hangs up occasionally. Did not happen during check-out but did occur at the plant. If this happens, the count entered is lost and requires zero reset and remeasurement. If this malfunction continues [redacted] will have to be called in to rectify. An interim fix can be made by switching the "y" counter input leads from the "y" counter to the "x" counter. This involves making all measurements in one axis at the same time then switching leads and measuring on the other axis. 25X1

Declass Review by NIMA / DoD

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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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c. The "y" axis drive shaft (splined shaft) was off balance. Tightening the lock overcame the trouble, however, if it reoccurs,  will have to key-lock the shaft.

25X1

d. Contractor is sending spare belts as they do stretch and consequently slippage occurs.

5. Check-out was completed at 4:30 p. m. on 22 July 1964.

25X1



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